



Designation: D6361/D6361M – 98 (Reapproved 2020)

Standard Guide for Selecting Cleaning Agents and Processes¹

This standard is issued under the fixed designation D6361/D6361M; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide is intended to assist design engineers, manufacturing/industrial engineers, and production managers in selecting the best fit cleaning agent and process. This guide takes into account environmental pollution prevention factors in a selection process.

1.2 This guide is not to be considered as a database of acceptable materials. It will guide the engineers and managers through the cleaning material selection process, calling for engineers to customize their selection based on the cleaning requirements for the cleaning tasks at hand. If a part can be cleaned, and kept clean, it can be cycled through several process steps that have cleaning requirements. This eliminates extra cleaning process steps during the total process. A total life cycle cost analysis or performance/cost of ownership study is recommended to compare the methods available.

1.3 This guide is for general industry manufacturing, equipment maintenance and remanufacturing operations, and to some extent precision cleaning of mechanical parts and assemblies. It is not intended to be used for optical, medical, or electronics applications, nor is it intended for dry-cleaning or super-critical fluid cleaning.

1.4 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system are not necessarily exact equivalents; therefore, to ensure conformance with the standard, each system shall be used independently of the other and values from the two systems shall not be combined.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the*

Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:²

- D56 Test Method for Flash Point by Tag Closed Cup Tester
- D92 Test Method for Flash and Fire Points by Cleveland Open Cup Tester
- D93 Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
- D2240 Test Method for Rubber Property—Durometer Hardness
- D3167 Test Method for Floating Roller Peel Resistance of Adhesives
- D3278 Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus (Withdrawn 2020)³
- D3519 Test Method for Foam in Aqueous Media (Blender Test) (Withdrawn 2013)³
- D3601 Test Method for Foam in Aqueous Media (Bottle Test) (Withdrawn 2013)³
- D3707 Test Method for Storage Stability of Water-in-Oil Emulsions by the Oven Test Method (Withdrawn 2016)³
- D3709 Test Method for Stability of Water-in-Oil Emulsions Under Low to Ambient Temperature Cycling Conditions (Withdrawn 2016)³
- D3762 Test Method for Adhesive-Bonded Surface Durability of Aluminum (Wedge Test) (Withdrawn 2019)³
- E70 Test Method for pH of Aqueous Solutions With the Glass Electrode
- E1720 Test Method for Determining Ready, Ultimate, Biodegradability of Organic Chemicals in a Sealed Vessel CO₂ Production Test (Withdrawn 2013)³
- F483 Practice for Total Immersion Corrosion Test for Aircraft Maintenance Chemicals
- F484 Test Method for Stress Cracking of Acrylic Plastics in Contact with Liquid or Semi-Liquid Compounds

¹ This guide is under the jurisdiction of ASTM Committee D26 on Halogenated Organic Solvents and Fire Extinguishing Agents and is the direct responsibility of Subcommittee D26.03 on Cold Cleaning.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.